

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (Cancelled)

8. (New) A manufacturing method for a polymer electrolyte fuel cell, the fuel cell comprising a polymer electrolyte membrane, a first gas diffusion layer and a first separator laminated on one surface of the polymer electrolyte membrane, and a second gas diffusion layer and a second separator laminated onto another surface of the polymer electrolyte membrane, the method comprising:

applying an adhesive to a surface of the first separator which contacts the first gas diffusion layer;

applying the adhesive to a surface of the second separator which contacts the second gas diffusion layer;

disposing the first separator, the first gas diffusion layer, the polymer electrolyte membrane, the second gas diffusion layer, and the second separator between a pair of pressing jigs so as to be laminated in the described sequence; and

obtaining an integrated fuel cell by applying heat and pressure to the first separator and the second separator using the pressing jigs.

9. (New) The manufacturing method as defined in Claim 8, wherein the first separator comprises a groove form gas passage facing the first gas diffusion layer, the adhesive applied to the first separator is applied to a partition wall portion defining the gas passage, the second separator comprises the groove form gas passage facing the second gas diffusion layer, and the adhesive applied to the second separator is applied to the partition wall portion defining the gas passage.

10. (New) The manufacturing method as defined in Claim 8, wherein a first catalyst layer and a second catalyst layer are coated onto the respective surfaces of the polymer electrolyte membrane in advance, and as a result of the pressure and heat applied to the first separator and the second separator by the pressing jigs, the first gas diffusion layer is thermally adhered to the first catalyst layer and the second gas diffusion layer is thermally adhered to the second catalyst layer.

11. (New) The manufacturing method as defined in Claim 10, wherein an adhesive is applied to only certain locations of the first gas diffusion layer facing the first catalyst layer, an adhesive is applied to only certain locations of the second gas diffusion layer facing the second catalyst layer, and as a result of the pressure and heat applied to the first separator and the second separator by the pressing jigs, the first gas diffusion layer is thermally adhered to the first catalyst layer and the second gas diffusion layer is thermally adhered to the second catalyst layer.

12. (New) The manufacturing method as defined in Claim 8, wherein the adhesive includes a thermosetting resin.

13. (New) The manufacturing method as defined in Claim 8, wherein the first separator comprises a concave portion in a surface facing the pressing jig, and the pressing jig comprises a convex portion which fits into the concave portion in the first separator.

14. (New) The manufacturing method as defined in Claim 13, wherein the concave portion is a cooling liquid passage of the fuel cell.